

SEQUENCE LISTING

<110> Bristol-Myers Squibb Company

<120> POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR
VARIANT OF HM74, HGPRBMY74

<130> D0323 NP

<150> U.S. 60/454,942

<151> 2003-03-14

<160> 58

<170> PatentIn version 3.2

<210> 1

<211> 2067

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (58)..(1218)

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Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
1          5          10          15

aac tgc tgt gtg ttc cga gat gac ttc att gtc aag gtg ttg ccg ccg      153
Asn Cys Cys Val Phe Arg Asp Asp Phe Ile Val Lys Val Leu Pro Pro
          20          25          30

gtg ttg ggg ctg gag ttt atc ttc ggg ctt ctg ggc aat ggc ctt gcc      201
Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
          35          40          45

ctg tgg att ttc tgt ttc cac ctc aag tcc tgg aaa tcc agc cgg att      249
Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
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ttc ctg ttc aac ctg gca gtg gct gac ttt cta ctg atc atc tgc ctg      297
Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
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ccc ttc ctg atg gac aac tat gtg agg cgt tgg gac tgg aag ttt ggg      345
Pro Phe Leu Met Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys Phe Gly
          85          90          95

gac atc cct tgc cgg ctg atg ctc ttc atg ttg gct atg aac cgc cag      393
Asp Ile Pro Cys Arg Leu Met Leu Phe Met Leu Ala Met Asn Arg Gln
          100          105          110

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gcc atc atc tct tgc ctt ctg tgg gcc atc act att gcc ctg aca gtc Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Ile Gly Leu Thr Val 145 150 155 160	537
cac ctc ctg aag aag aag atg ccg atc cag aat gcc ggt gca aat ttg His Leu Leu Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu 165 170 175	585
tgc agc agc ttc agc atc tgc cat acc ttc cag tgg cac gaa gcc atg Cys Ser Ser Phe Ser Ile Cys His Thr Phe Gln Trp His Glu Ala Met 180 185 190	633
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gcc aga att atc tgg agc ctg cgg cag aga caa atg gac cgg cat gcc Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala 210 215 220	729
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ctc ctg cac act tcg gcc acg cag aat tgt gaa gtg tac cgc tcg gtg Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val 260 265 270	873
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aaa acc aga ggc gct cca gag gcg tta atg gcc aac tcc ggt gag cca	1113

Lys	Thr	Arg	Gly	Ala	Pro	Glu	Ala	Leu	Met	Ala	Asn	Ser	Gly	Glu	Pro		
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Gly	His	Cys	His	Gln	Glu	Pro	Ala	Ser	Leu	Glu	Lys	Gln	Leu	Gly	Cys		
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Cys	Ile	Glu															
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ttccttcgct	tgtgtttctg	tacttaccaa	aaatctacca	tttcaataaa	ttttgatagg											2038	
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			20					25					30		

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
 35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
 50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
 65 70 75 80

Pro Phe Leu Met Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys Phe Gly
 85 90 95

Asp Ile Pro Cys Arg Leu Met Leu Phe Met Leu Ala Met Asn Arg Gln
 100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
 115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Arg Thr Ala
 130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Ile Gly Leu Thr Val
 145 150 155 160

His Leu Leu Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu
 165 170 175

Cys Ser Ser Phe Ser Ile Cys His Thr Phe Gln Trp His Glu Ala Met
 180 185 190

Phe Leu Leu Glu Phe Phe Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
 195 200 205

Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
 210 215 220

Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
 225 230 235 240

Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
 245 250 255

Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val
 260 265 270

Asp Leu Ala Phe Phe Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
 275 280 285

Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
 290 295 300

Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu
 305 310 315 320

Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
 325 330 335

Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro
 340 345 350

Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Asn Asn His Ser Lys Lys
 355 360 365

Gly His Cys His Gln Glu Pro Ala Ser Leu Glu Lys Gln Leu Gly Cys
 370 375 380

Cys Ile Glu
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Met Asn Arg His His Leu Gln Asp His Phe Leu Glu Ile Asp Lys Lys
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 20 25 30

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
 35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile

50		55		60
Phe 65	Leu Phe Asn 70	Leu Ala Val 75	Ala Asp Phe 80	Leu Leu Ile Ile Cys Leu
Pro 85	Phe Val Met 90	Asp Tyr Tyr Val 95	Arg Arg Ser Asp Trp Asn Phe Gly	
Asp 100	Ile Pro Cys Arg 105	Leu Val Leu Phe Met 110	Phe Ala Met Asn Arg Gln	
Gly 115	Ser Ile Ile Phe 120	Leu Thr Val Val Ala Val 125	Asp Arg Tyr Phe Arg	
Val 130	Val His Pro His 135	Ala Leu Asn Lys Ile 140	Ser Asn Trp Thr Ala	
Ala 145	Ile Ile Ser Cys 150	Leu Leu Trp Gly Ile 155	Thr Val Gly Leu Thr Val	
His 165	Leu Leu Lys Lys 170	Leu Leu Ile Gln Asn Gly 175	Pro Ala Asn Val	
Cys 180	Ile Ser Phe Ser 185	Ile Cys His Thr Phe Arg Trp 190	His Glu Ala Met	
Phe 195	Leu Leu Glu Phe 200	Leu Leu Pro Leu Gly Ile Ile 205	Leu Phe Cys Ser	
Ala 210	Arg Ile Ile Trp Ser 215	Leu Arg Gln Arg Gln Met 220	Asp Arg His Ala	
Lys 225	Ile Lys Arg Ala 230	Ile Thr Phe Ile Met Val Val 235	Ala Ile Val Phe	
Val 245	Ile Cys Phe Leu 250	Pro Ser Val Val Val Arg Ile Arg 255	Ile Phe Trp	
Leu 260	Leu His Thr Ser 265	Gly Thr Gln Asn Cys Glu Val Tyr Arg 270	Ser Val	
Asp 275	Leu Ala Phe Phe 280	Ile Thr Leu Ser Phe Thr Tyr Met 285	Asn Ser Met	

Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
 290 295 300

Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu
 305 310 315 320

Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
 325 330 335

Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro
 340 345 350

Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Asn Asn His Ser Lys Lys
 355 360 365

Gly His Cys His Gln Glu Pro Ala Ser Leu Glu Lys Gln Leu Gly Cys
 370 375 380

Cys Ile Glu
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 20 25 30

Val Leu Gly Leu Glu Phe Ile Phe Gly Leu Leu Gly Asn Gly Leu Ala
 35 40 45

Leu Trp Ile Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile
 50 55 60

Phe Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu
 65 70 75 80

Pro Phe Leu Met Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys Phe Gly
 85 90 95

Asp Ile Pro Cys Arg Leu Met Leu Phe Met Leu Ala Met Asn Arg Gln
 100 105 110

Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg
 115 120 125

Val Val His Pro His His Ala Leu Asn Lys Ile Ser Asn Arg Thr Ala
 130 135 140

Ala Ile Ile Ser Cys Leu Leu Trp Gly Ile Thr Ile Gly Leu Thr Val
 145 150 155 160

His Leu Leu Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu
 165 170 175

Cys Ser Ser Phe Ser Ile Cys His Thr Phe Gln Trp His Glu Ala Met
 180 185 190

Phe Leu Leu Glu Phe Phe Leu Pro Leu Gly Ile Ile Leu Phe Cys Ser
 195 200 205

Ala Arg Ile Ile Trp Ser Leu Arg Gln Arg Gln Met Asp Arg His Ala
 210 215 220

Lys Ile Lys Arg Ala Ile Thr Phe Ile Met Val Val Ala Ile Val Phe
 225 230 235 240

Val Ile Cys Phe Leu Pro Ser Val Val Val Arg Ile Arg Ile Phe Trp
 245 250 255

Leu Leu His Thr Ser Gly Thr Gln Asn Cys Glu Val Tyr Arg Ser Val
 260 265 270

Asp Leu Ala Phe Phe Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
 275 280 285

Leu Asp Pro Val Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Asn Phe
 290 295 300

Phe Ser Thr Leu Ile Asn Arg Cys Leu Gln Arg Lys Met Thr Gly Glu

305 310 315 320

Pro Asp Asn Asn Arg Ser Thr Ser Val Glu Leu Thr Gly Asp Pro Asn
 325 330 335

Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly Glu Pro
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Trp Ser Pro Ser Tyr Leu Gly Pro Thr Ser Pro
 355 360

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 <213> Mus musculus

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 20 25 30

Leu Glu Phe Val Phe Gly Leu Leu Gly Asn Gly Leu Ala Leu Trp Ile
 35 40 45

Phe Cys Phe His Leu Lys Ser Trp Lys Ser Ser Arg Ile Phe Leu Phe
 50 55 60

Asn Leu Ala Val Ala Asp Phe Leu Leu Ile Ile Cys Leu Pro Phe Leu
 65 70 75 80

Thr Asp Asn Tyr Val His Asn Trp Asp Trp Arg Phe Gly Gly Ile Pro
 85 90 95

Cys Arg Val Met Leu Phe Met Leu Ala Met Asn Arg Gln Gly Ser Ile
 100 105 110

Ile Phe Leu Thr Val Val Ala Val Asp Arg Tyr Phe Arg Val Val His
 115 120 125

Pro His His Phe Leu Asn Lys Ile Ser Asn Arg Thr Ala Ala Ile Ile
 130 135 140

Ser	Cys	Phe	Leu	Trp	Gly	Leu	Thr	Ile	Gly	Leu	Thr	Val	His	Leu	Leu	145	150	155	160
Tyr	Thr	Asn	Met	Met	Thr	Lys	Asn	Gly	Glu	Ala	Tyr	Leu	Cys	Ser	Ser	165	170	175	
Phe	Ser	Ile	Cys	Tyr	Asn	Phe	Arg	Trp	His	Asp	Ala	Met	Phe	Leu	Leu	180	185	190	
Glu	Phe	Phe	Leu	Pro	Leu	Ala	Ile	Ile	Leu	Phe	Cys	Ser	Gly	Arg	Ile	195	200	205	
Ile	Trp	Ser	Leu	Arg	Gln	Arg	Gln	Met	Asp	Arg	His	Ala	Lys	Ile	Lys	210	215	220	
Arg	Ala	Ile	Asn	Phe	Ile	Met	Val	Val	Ala	Ile	Val	Phe	Ile	Ile	Cys	225	230	235	240
Phe	Leu	Pro	Ser	Val	Ala	Val	Arg	Ile	Arg	Ile	Phe	Trp	Leu	Leu	Tyr	245	250	255	
Lys	Tyr	Asn	Val	Arg	Asn	Cys	Asp	Ile	Tyr	Ser	Ser	Val	Asp	Leu	Ala	260	265	270	
Phe	Phe	Thr	Thr	Leu	Ser	Phe	Thr	Tyr	Met	Asn	Ser	Met	Leu	Asp	Pro	275	280	285	
Val	Val	Tyr	Tyr	Phe	Ser	Ser	Pro	Ser	Phe	Pro	Asn	Phe	Phe	Ser	Thr	290	295	300	
Cys	Ile	Asn	Arg	Cys	Leu	Arg	Lys	Lys	Thr	Leu	Gly	Glu	Pro	Asp	Asn	305	310	315	320
Asn	Arg	Ser	Thr	Ser	Val	Glu	Leu	Thr	Gly	Asp	Pro	Ser	Thr	Thr	Arg	325	330	335	
Ser	Ile	Pro	Gly	Ala	Leu	Met	Ala	Asp	Pro	Ser	Glu	Pro	Gly	Ser	Pro	340	345	350	
Pro	Tyr	Leu	Ala	Ser	Thr	Ser	Arg									355	360		

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<400> 6

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Val Gly Val Leu Leu Gly Leu Glu Cys Gly Leu Gly Leu Leu Gly Asn
 20 25 30

Ala Val Ala Leu Trp Thr Phe Leu Phe Arg Val Arg Val Trp Lys Pro
 35 40 45

Tyr Ala Val Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Leu Ala
 50 55 60

Ala Cys Leu Pro Phe Leu Ala Ala Phe Tyr Leu Ser Leu Gln Ala Trp
 65 70 75 80

His Leu Gly Arg Val Gly Cys Trp Ala Leu Arg Phe Leu Leu Asp Leu
 85 90 95

Ser Arg Ser Val Gly Met Ala Phe Leu Ala Ala Val Ala Leu Asp Arg
 100 105 110

Tyr Leu Arg Val Val His Pro Arg Leu Lys Val Asn Leu Leu Ser Pro
 115 120 125

Gln Ala Ala Leu Gly Val Ser Gly Leu Val Trp Leu Leu Met Val Ala
 130 135 140

Leu Thr Cys Pro Gly Leu Leu Ile Ser Glu Ala Ala Gln Asn Ser Thr
 145 150 155 160

Arg Cys His Ser Phe Tyr Ser Arg Ala Asp Gly Ser Phe Ser Ile Ile
 165 170 175

Trp Gln Glu Ala Leu Ser Cys Leu Gln Phe Val Leu Pro Phe Gly Leu
 180 185 190

Ile Val Phe Cys Asn Ala Gly Ile Ile Arg Ala Leu Gln Lys Arg Leu
 195 200 205

Arg Glu Pro Glu Lys Gln Pro Lys Leu Gln Arg Ala Gln Ala Leu Val
 210 215 220

Thr Leu Val Val Val Leu Phe Ala Leu Cys Phe Leu Pro Cys Phe Leu
 225 230 235 240

Ala Arg Val Leu Met His Ile Phe Gln Asn Leu Gly Ser Cys Arg Ala
 245 250 255

Leu Cys Ala Val Ala His Thr Ser Asp Val Thr Gly Ser Leu Thr Tyr
 260 265 270

Leu His Ser Val Val Asn Pro Val Val Tyr Cys Phe Ser Ser Pro Thr
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Phe Arg Ser Ser Tyr Arg Arg Val Phe His Thr Leu Arg Gly Lys Gly
 290 295 300

Gln Ala Ala Glu Pro Pro Asp Phe Asn Pro Arg Asp Ser Tyr Ser
 305 310 315

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<400> 7

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 20 25 30

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 35 40 45

Tyr Ala Val Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Leu Ala
 50 55 60

Ala Cys Leu Pro Phe Leu Ala Ala Phe Tyr Leu Ser Leu Gln Ala Trp
 65 70 75 80

His Leu Gly Arg Val Gly Cys Trp Ala Leu His Phe Leu Leu Asp Leu
 85 90 95

Ser Arg Ser Val Gly Met Ala Phe Leu Ala Ala Val Ala Leu Asp Arg
 100 105 110

Tyr Leu Arg Val Val His Pro Arg Leu Lys Val Asn Leu Leu Ser Pro
 115 120 125

Gln Ala Ala Leu Gly Val Ser Gly Leu Val Trp Leu Leu Met Val Ala
 130 135 140

Leu Thr Cys Pro Gly Leu Leu Ile Ser Glu Ala Ala Gln Asn Ser Thr
 145 150 155 160

Arg Cys His Ser Phe Tyr Ser Arg Ala Asp Gly Ser Phe Ser Ile Ile
 165 170 175

Trp Gln Glu Ala Leu Ser Cys Leu Gln Phe Val Leu Pro Phe Gly Leu
 180 185 190

Ile Val Phe Cys Asn Ala Gly Ile Ile Arg Ala Leu Gln Lys Arg Leu
 195 200 205

Arg Glu Pro Glu Lys Gln Pro Lys Leu Gln Arg Ala Gln Ala Leu Val
 210 215 220

Thr Leu Val Val Val Leu Phe Ala Leu Cys Phe Leu Pro Cys Phe Leu
 225 230 235 240

Ala Arg Val Leu Met His Ile Phe Gln Asn Leu Gly Ser Cys Arg Ala
 245 250 255

Leu Cys Ala Val Ala His Thr Ser Asp Val Thr Gly Ser Leu Thr Tyr
 260 265 270

Leu His Ser Val Leu Asn Pro Val Val Tyr Cys Phe Ser Ser Pro Thr
 275 280 285

Phe Arg Ser Ser Tyr Arg Arg Val Phe His Thr Leu Arg Gly Lys Gly
 290 295 300

Gln Ala Ala Glu Pro Pro Asp Phe Asn Pro Arg Asp Ser Tyr Ser

305

310

315

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<213> Homo sapiens

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 20 25 30

Asn Gly Val Ala Leu Cys Gly Phe Cys Phe His Met Lys Thr Trp Lys
 35 40 45

Pro Ser Thr Val Tyr Leu Phe Asn Leu Ala Val Ala Asp Phe Leu Leu
 50 55 60

Met Ile Cys Leu Pro Phe Arg Thr Asp Tyr Tyr Leu Arg Arg Arg His
 65 70 75 80

Trp Ala Phe Gly Asp Ile Pro Cys Arg Val Gly Leu Phe Thr Leu Ala
 85 90 95

Met Asn Arg Ala Gly Ser Ile Val Phe Leu Thr Val Val Ala Ala Asp
 100 105 110

Arg Tyr Phe Lys Val Val His Pro His His Ala Val Asn Thr Ile Ser
 115 120 125

Thr Arg Val Ala Ala Gly Ile Val Cys Thr Leu Trp Ala Leu Val Ile
 130 135 140

Leu Gly Thr Val Tyr Leu Leu Leu Glu Asn His Leu Cys Val Gln Glu
 145 150 155 160

Thr Ala Val Ser Cys Glu Ser Phe Ile Met Glu Ser Ala Asn Gly Trp
 165 170 175

His Asp Ile Met Phe Gln Leu Glu Phe Phe Met Pro Leu Gly Ile Ile
 180 185 190

Leu Phe Cys Ser Phe Lys Ile Val Trp Ser Leu Arg Arg Arg Gln Gln
195 200 205

Leu Ala Arg Gln Ala Arg Met Lys Lys Ala Thr Arg Phe Ile Met Val
210 215 220

Val Ala Ile Val Phe Ile Thr Cys Tyr Leu Pro Ser Val Ser Ala Arg
225 230 235 240

Leu Tyr Phe Leu Trp Thr Val Pro Ser Ser Ala Cys Asp Pro Ser Val
245 250 255

His Gly Ala Leu His Ile Thr Leu Ser Phe Thr Tyr Met Asn Ser Met
260 265 270

Leu Asp Pro Leu Val Tyr Tyr Phe Ser Ser Pro Ser Phe Pro Lys Phe
275 280 285

Tyr Asn Lys Leu Lys Ile Cys Ser Leu Lys Pro Lys Gln Pro Gly His
290 295 300

Ser Lys Thr Gln Arg Pro Glu Glu Met Pro Ile Ser Asn Leu Gly Arg
305 310 315 320

Arg Ser Cys Ile Ser Val Ala Asn Ser Phe Gln Ser Gln Ser Asp Gly
325 330 335

Gln Trp Asp Pro His Ile Val Glu Trp His
340 345

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Met Glu His Thr Asn Cys Ser Ala Ala Ser Thr Val Val Glu Thr Ala
1 5 10 15

Val Gly Thr Met Leu Thr Leu Glu Cys Val Leu Gly Leu Met Gly Asn
20 25 30

Ala Val Ala Leu Trp Thr Phe Phe Tyr Arg Leu Lys Val Trp Lys Pro

35	40	45															
Tyr	Ala	Val	Tyr	Leu	Phe	Asn	Leu	Val	Val	Ala	Asp	Leu	Leu	Leu	Ala		
50						55					60						
Thr	Ser	Val	Pro	Phe	Phe	Ala	Ala	Phe	Tyr	Leu	Lys	Gly	Lys	Thr	Trp		
65				70						75					80		
Lys	Leu	Gly	His	Met	Pro	Cys	Gln	Leu	Leu	Leu	Phe	Leu	Leu	Ala	Phe		
				85					90					95			
Ser	Cys	Gly	Val	Gly	Val	Ala	Phe	Leu	Met	Thr	Val	Ala	Leu	Asp	Arg		
			100					105					110				
Tyr	Leu	His	Val	Val	His	Pro	Arg	Leu	Arg	Val	Asn	Leu	Leu	Ser	Leu		
	115						120					125					
Arg	Ala	Ala	Trp	Gly	Ile	Ser	Ser	Leu	Ile	Trp	Leu	Leu	Met	Val	Val		
	130					135					140						
Leu	Thr	Pro	Gln	Asn	Leu	Leu	Thr	Cys	Arg	Thr	Thr	Gln	Asn	Ser	Thr		
145					150					155					160		
Glu	Cys	Pro	Ser	Phe	Tyr	Pro	Thr	Gly	Gly	Thr	Lys	Ala	Ile	Ala	Thr		
				165					170					175			
Cys	Gln	Glu	Val	Leu	Phe	Phe	Leu	Gln	Val	Leu	Leu	Pro	Phe	Gly	Leu		
			180					185					190				
Ile	Ser	Phe	Cys	Asn	Ser	Gly	Leu	Ile	Arg	Thr	Leu	Gln	Lys	Arg	Leu		
	195						200					205					
Ser	Glu	Ser	Asp	Lys	Gln	Pro	Thr	Ile	Arg	Arg	Ala	Arg	Val	Leu	Val		
	210					215					220						
Ala	Ile	Met	Leu	Leu	Leu	Phe	Gly	Leu	Cys	Phe	Leu	Pro	Ser	Val	Leu		
225					230					235					240		
Thr	Arg	Val	Leu	Val	His	Ile	Phe	Gln	Glu	Phe	Lys	Ser	Cys	Ser	Val		
				245					250					255			
Gln	Gln	Ala	Ile	Met	Arg	Ala	Ser	Asp	Ile	Ala	Gly	Ser	Leu	Thr	Cys		
			260					265					270				

Leu His Ser Thr Leu Ser Pro Ala Ile Tyr Cys Phe Ser Asn Pro Ala
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Phe Thr His Ser Tyr Arg Lys Val Leu Lys Ser Leu Arg Gly Arg Arg
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Lys Ala Ala Glu Ser Pro Ser Asp Asn Leu Arg Asp Ser Tyr Ser
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Phe

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Leu Pro Phe Leu Met
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Arg Gln Gly Ser Ile Ile Phe Leu Thr Val Val Ala Val
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Val His Leu Leu
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1 5 10 15

Cys Ser Ala

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Leu Pro Ser Val Val Val
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Asp Pro Val Val Tyr Tyr Phe Ser
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His Leu Lys Ser Trp Lys Ser Ser Arg
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Asp Asn Tyr Val Arg Arg Trp Asp Trp Lys
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Asp Arg Tyr Phe Arg Val Val His Pro His His Ala Leu Asn Lys Ile
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Ser Asn Arg Thr
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Lys Lys Lys Met Pro Ile Gln Asn Gly Gly Ala Asn Leu Cys Ser Ser
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Phe Ser Ile Cys His Thr Phe Gln Trp His Glu
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Ile Lys Arg

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Glu Val Tyr Arg Ser Val Asp
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1 5 10 15

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Pro Asn Lys Thr Arg Gly Ala Pro Glu Ala Leu Met Ala Asn Ser Gly
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